

(No Model.)

2 Sheets—Sheet 1.

L. A. COOPER.

LANTERN FOR REGENERATIVE GAS LAMPS.

No. 446,991.

Patented Feb. 24, 1891.

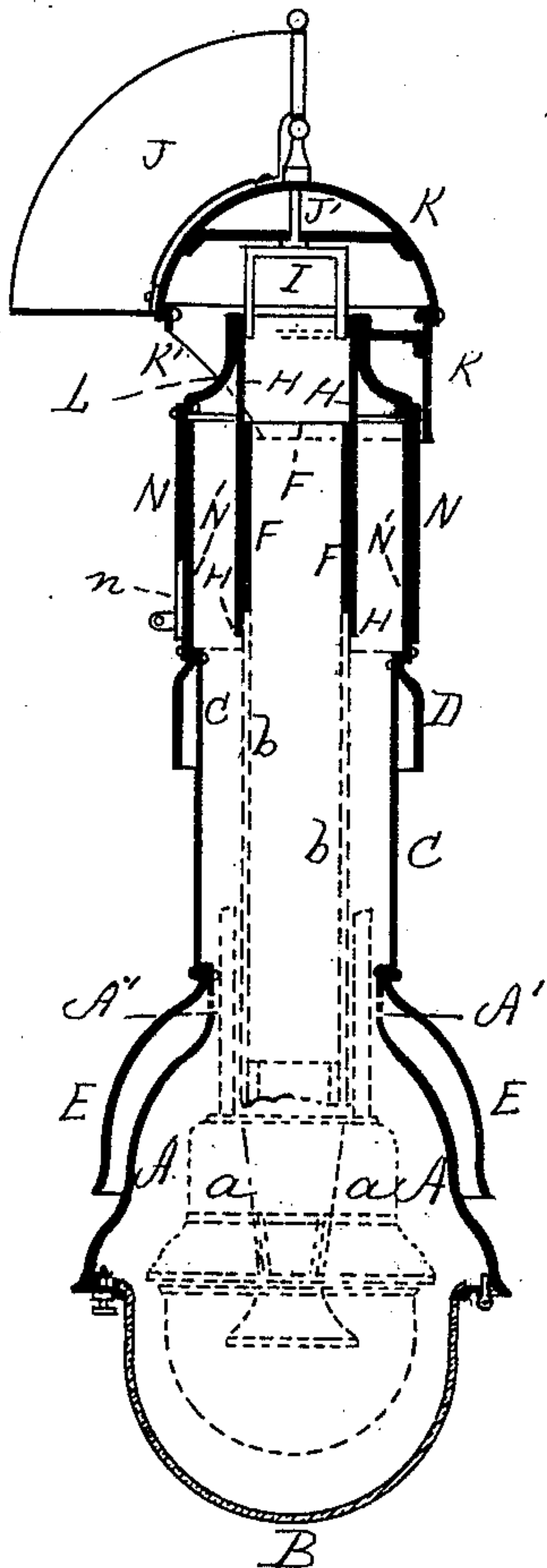


Fig. 1.

WITNESSES.

J. M. Hartnett.

E. W. Williams.

INVENTOR

Leslie A. Cooper

By his atty;

Henry Williams.

(No Model.)

2 Sheets—Sheet 2.

L. A. COOPER.

LANTERN FOR REGENERATIVE GAS LAMPS.

No. 446,991.

Patented Feb. 24, 1891.

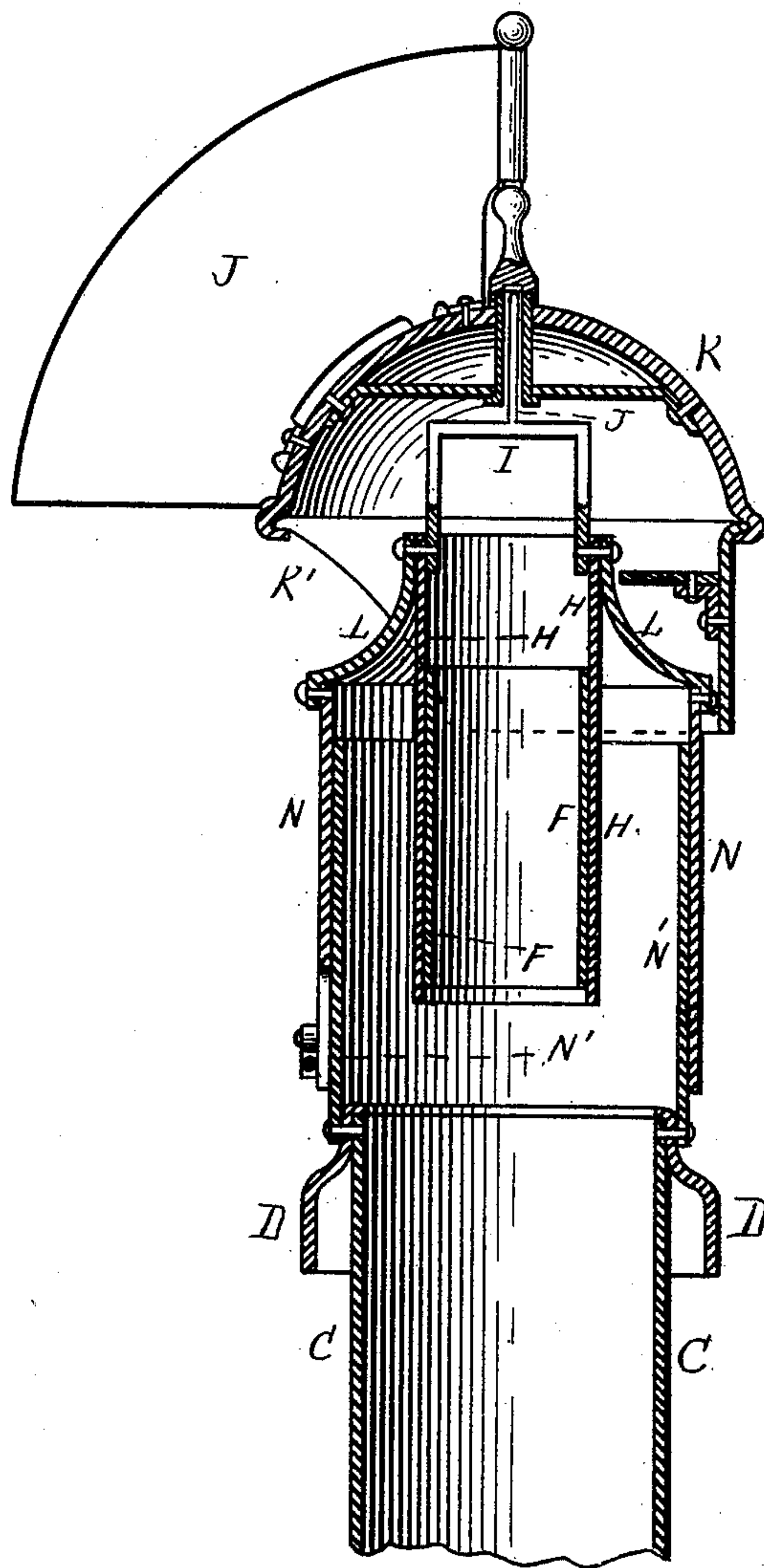


Fig. 2

WITNESSES.

J. M. Hartnett
A. J. Martin.

INVENTOR

Leslie A. Cooper,
By his Atty

Henry Williams

UNITED STATES PATENT OFFICE.

LESLIE A. COOPER, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF
TO FISKE, COLEMAN & CO., OF SAME PLACE.

LANTERN FOR REGENERATIVE GAS-LAMPS.

SPECIFICATION forming part of Letters Patent No. 446,991, dated February 24, 1891.

Application filed September 1, 1890. Serial No. 363,699. (No model.)

To all whom it may concern:

Be it known that I, LESLIE A. COOPER, of Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful
5 Improvements in Lanterns for Regenerative Gas-Lamps, of which the following is a specification.

This invention relates to lanterns for regenerative gas-lamps such as are used for street
10 and other outside lighting, and it relates to the peculiar construction below described, by which is provided an extension or telescopic attachment to the lamp-chimney whereby the draft can be regulated to accommodate the
15 variations in the richness or candle-power of different gases.

In the drawings, Figure 1 shows a central vertical section of a lantern embodying my invention, the position and construction of an
20 ordinary lamp such as is used in such lanterns being shown in broken lines. Fig. 2 is an enlarged central vertical section of the principal portion of the lantern.

A represents the portion of the casing next
25 the lamp, (which is represented at *a* in broken lines,) said casing being provided with the air-inlets *A'*, and supporting the glass globe *B*.

C represents that portion of the casing which
30 is next the lamp-chimney, (represented at *b* in broken lines,) and *D* is the rain-guard, all constructed substantially as usual.

E is a wind-guard rigidly secured at its upper end to the casing just above the air-inlets *A'* and extending well down over the portion
35 *A* of the casing, conforming somewhat to its shape, with the effect of preventing the wind from striking the flame in sufficient currents or gusts to cause it to vibrate.

To the end of the ordinary metallic chimney

(*b*, broken lines) of the lamp I secure rigidly 40
or make integral therewith an extension *F*, and fitting telescopically over the extension is an additional tube *H*, so that the parts *F* and *H* make a telescopic extension to the ordinary lamp-chimney. A box *I*, which sup- 45
ports the spindle *J'* of the vane *J* on the ordinary cowl *K*, having the air-outlet *K'*, is riveted onto the top of the extension *H*. The upper end *L* of the casing is rigidly secured to the outer side of the upper end of the ex- 50
tension *H*, and the parts *N N'* of the casing are telescopic, as shown, the part *N* being secured to the part *L*, and the part *N'* to the part *C*. The part *N* is preferably slitted at *n*,
55 in order that it may be tightened and held at any desired point on the part *N'* by any suitable means. Thus the chimney and with it the casing may be lengthened or shortened as desired, and the draft consequently regulated to accommodate the variation in rich- 60
ness or candle-power of different gases.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In a lantern for regenerative gas-lamps, the 65
combination of the telescopic chimney comprising the parts *F H*, telescopically arranged, as shown, and the telescopic casing comprising the parts *N N'*, telescopically arranged, as shown, and portion *L*, whereby the device is 70
vertically adjustable on the chimney and casing for the purpose of regulating the draft, substantially as set forth.

LESLIE A. COOPER.

Witnesses:

HENRY W. WILLIAMS,
J. M. HARTNETT.